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1905 1906

BRUNSWICK, MAINE

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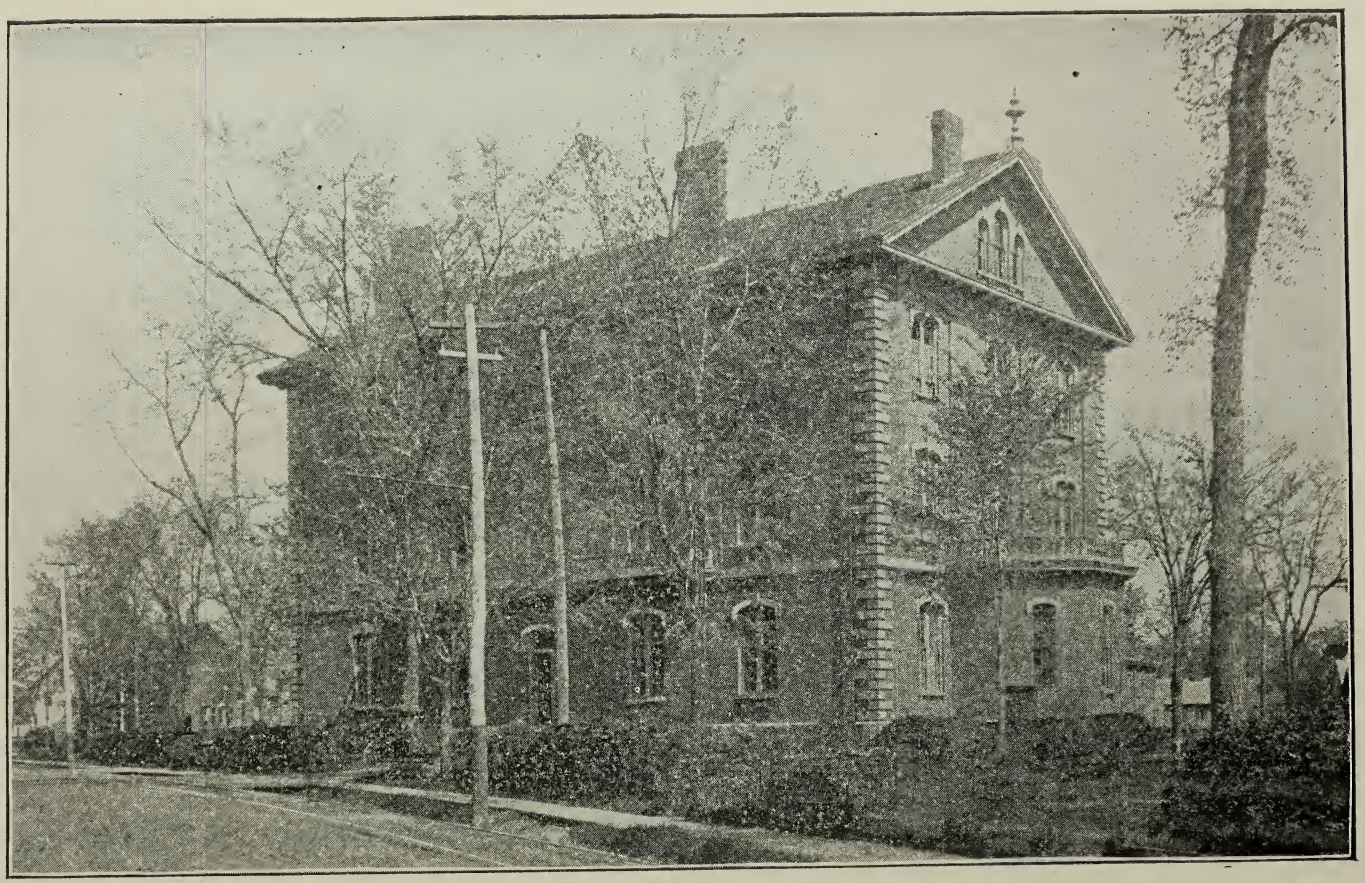

SCHOOL BUILDING, BRUNSWICK

CATALOGUE OF THE MEDICAL SCHOOL OF MAINE, THE MEDICAL DEPARTMENT OF BOWDOIN COLLEGE

FOR THE EIGHTY-SIXTH YEAR

1905 1906

BRUNSWICK, MAINE

PRINTED FOR THE COLLEGE, MDCCCCV

PRESS OF THE BRUNSWICK RECORD
BRUNSWICK, MAINE

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Insane Hospital, Augusta.

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12 Pine Street, Portland.

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Portland.

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673 Congress Street, Portland.

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8 College Street, Brunswick.

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CHARLES WASHINGTON BRAY, M. D.,
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GRADUATES OF 1905.

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CHARLES EUGENE HILL BEANE, A. B. ..... Hallowell

JESSE SUMNER BRAGG, A. B. ..... St. Albans

FRANK WILSON CLARKE ..... Damariscotta

DEFOREST SMITH DAY ..... Jefferson

ERNEST WOODBURY FILES, A. B. ..... Gorham

ERNEST BERTRAND FOLSOM, A. B. ..... Stroudwater

ARTHUR LEWIS GOULD ..... Ellsworth

DON LESLIE HARDEN ..... Phillips

BENJAMIN FRANKLIN HAYDEN, A. B. ..... South Portland

CHARLES HENRY HUNT, A. B. ..... Portland

HARRY JOSEPH HUNT, A. B. ..... Bangor

JOHN CHRISTOPHER O'CONNOR, B. S. ..... Bradford, Mass.

JAMES EDWARD POOLER ..... Waterville

FRED JOHN PRITHAM ..... Freeport

DANIEL FRANK DAVIS RUSSELL ..... Leeds

WARREN HUNTER SHERMAN ..... Damariscotta

FRED MILTON SMITH ..... Portland

STUDENTS IN 1905.

FOURTH YEAR.

Name	Residence	Room
Barker, Nat Bailey Twycross, A. B.	*Cedar Grove*	299 Brackett St.
Beane, Charles Eugene Hill, A. B.	*Hallowell*	775 Congress St.
Bragg, Jesse Sumner, A. B	*St. Albans*	299 Brackett St.
Clarke, Frank Wilson	*Damariscotta*	776 Congress St.
Day, DeForest Smith	*Jefferson*	30 Whitney St.
Files, Ernest Woodbury, A. B	*Gorham*	807 Congress St.
Folsom, Ernest Bertrand, A. B	*Stroudwater*	99 Westbrook St.
Gould, Arthur Lewis	*Ellsworth*	776 Congress St.
Harden, Don Leslie	*Phillips*	775 Congress St.
Hayden, Benjamin Franklin, A. B.	*South Portland*	631 Highland Ave.
Hunt, Charles Henry, A. B	*Portland*	321 Brackett St.
Hunt, Harry Joseph, A. B	*Bangor*	96 Federal St.
O'Connor, John Christopher, B. S.	*Bradford, Mass.*	776 Congress St.
Pooler, James Edward	*Waterville*	775 Congress St.
Pritham, Fred John	*Freeport*	776 Congress St.
Russell, Daniel Frank Davis	*Leeds*	776 Congress St.
Sherman, Warren Hunter	*Damariscotta*	30 Whitney St.
Smith, Fred Milton	*Portland*	807 Congress St.

THIRD YEAR.

Name	Residence	Room
Barrows, Harris Clark, A. B	*Augusta*	26 Arsenal St.
Davis, Arthur Osman	*Bridgton*	302 Bramhall St.
Davis, John Lewis	*Portland*	328 Fore St.
Derry, Louis Andrew, A. B	*Portland*	221 Federal St.
Ferren, Frank Leslie	*W. Levant*	46 Ellsworth St.
Fisher, Stanwood Elmer	*Portland*	26 Brackett St.
Ford, Leonard Harris, B. S	*E. Eddington*	46 Ellsworth St.
Gilbert, Percy Emerton, A. B	*Waterville*	174 Neal St.
Ilsley, Harris Page	*Limington*	19 Deering Avenue
Larrabee, Scott Goddard	*Scarboro*	302 Brackett St.
Marks, Homer Elbridge	*Portland*	302 Brackett St.
Ridlon, Joseph Randall, A. B	*Gorham*	302 Brackett St.
Roberts, Walter Joseph	*Kennebunk*	26 Arsenal St.

Ross, Atherton Monette.....*Phillips*.....26 Arsenal St.
Sampson, Harry William.....*Monson*.....120 Pleasant St.
Schriver, Alfred Herman.....*Middle Southampton, N. B.*Portland
Shaw, Adam Jr.....*Lowell, Mass.*. 19 Deering Avenue
Welch, Francis Joseph, A. B.....*Portland*.....220 Danforth St.
Woodbury, Malcolm Sumner, A. B. *Portland*.....156 Stevens Avenue

SECOND YEAR.

Name	Residence	Room
Dolloff, David Ernest	*Monroe, Brooks P. O.*	6 Cleaveland St.
Everett, Harold Josselyn, A. B.	*Portland*	31 College St.
Foster, Ralph Waldo	*Milbridge*	185 Maine St.
Giddings, Harold Girard, A. B.	*Gardiner*	7 A. H.
Hall, Herbert Wilder	*Brooks*	12 Everett St.
Hanson, Millard Parker	*Bath*	30 Cumberland St.
Keller, Benjamin Henry	*Appleton*	6 Cleaveland St.
Lewis, William Jerris	*S. Framingham, Mass*	12 Everett St.
Moore, Roland Banks	*Portland*	172 Maine St.
Newcomb, Charles Howard	*Newburgh Village.*	6 Cleaveland St.
North, Charles David	*Turner*	6 Cleaveland St.
Pettingill, Olin Sewall	*Wayne*	185 Maine St.
Priest, Maurice Albert	*Shawmut*	13 Everett St.
Quinn, Hugh Francis, A. B.	*Bangor*	7 W. H.
Ridlon, Magnus Gervise	*Porter*	13 Everett St.
Ross, Archabald Charles	*Phillips*	Brunswick
Rowe, William Thomas, A. B.	*Portland*	23 W. H.
Sawyer, Alfred Loomis, A. B.	*Fort Fairfield*	172 Maine St.
Saunders, Henry Clayton, A. B.	*Portland*	23 W. H.
Sturgis, Karl Brooks	*Auburn*	179 Park Row
Varney, Fred Lord	*Enfield*	12 Everett St.
Webber, Merton Ardeen	*Fairfield*	30 Cumberland St.
Webber, Millard Carroll	*Fairfield*	30 Cumberland St.
Whitmore, William Cotmore	*Portland*	2 Elm St.
Wyndham, Charles Arnold	*Lisbon Falls*	6 Cleaveland St.

FIRST YEAR.

Name	Residence	Room
Abbott, Henry Wilson	*Waterville*	7 Potter St.
Anderson, Hany Edward	*S. Limington*	179 Park Row
Atwood, Harold Fisher	*Norwood, Mass*	13 Everett St.
Bibber, Harold' Thornton	*Bath*	335 Front St.
Bodwell, Ernest	*Brunswick*	24 Bowker St.

Buker, Edson Bayard ..... *Waldoboro* ..... 84 Federal St.
Cox, James Francis ..... *Houlton* ..... 7 A. H.
Crane, James Wilder ..... *Whiting* ..... 13 Everett St.
Foster, George Adams ..... *Bangor* ..... 10 W. H.
Garcelon, Harold Webb ..... *Lewiston* ..... 26 A. H.
Geer, George Independence ..... *Westbrook* ..... 12 Everett St.
Greene, John Adolph ..... *Coplin* ..... 216 Maine St.
Hasty, Willis LeRoy ..... *Thorndike* ..... 8 Harpswell Place
Jones, Arthur Leon, A. B ..... *Old Orchard* ..... 31 A. H.
Marshall, Linn Bayard ..... *Portland* ..... 12 Pleasant St.
McKay, Roland Lee ..... *Bowdoinham* ..... Bowdoinham
Mullin, Seth Smith ..... *Vinalhaven* ..... 1 W. H.
Percy, Samuel Watson ..... *Bath* ..... 13 Everett St.
Precour, George Charles ..... *Saco* ..... 12 Pleasant St.
Potter, John Garfield ..... *Providence, R. I.* ..... 13 Everett St.
Staples, Ivan ..... *Limerick* ..... 179 Park Row
Stewart, Ralph Carroll ..... *New Vineyard* ..... 13 M. H.
Stone, George Henry ..... *Portland* ... Theta Delta Chi House
Thayer, Harold Hamilton, A. B .... *S. Paris* ..... 179 Park Row
Twaddle, Widd Browne ..... *Bethel* ..... 13 Everett St.
Tucker, George Everett ..... *Hyde Park, Mass* ..... 10 W. H.
Whitney, Harlan Ronello ..... *Standish* ..... 9 Cleaveland St.
Williams, Edmund Percy, A. B ..... *Topsham* ..... 9 Cleaveland St.
Wilson, Charles Moore ..... *Waterford* ..... 216 Maine St.
Woodruff, John Hamilton ..... *Brunswick* ..... 262 Maine St.

ANNOUNCEMENT.

The Medical School of Maine, established by the first legislature of the State, was by its charter placed under the control of the Boards of Trustees and Overseers of Bowdoin College, of which institution it is the Medical Department.

Its course of instruction covers four years of eight months each. The studies are distributed through the curriculum according to the following schedule:

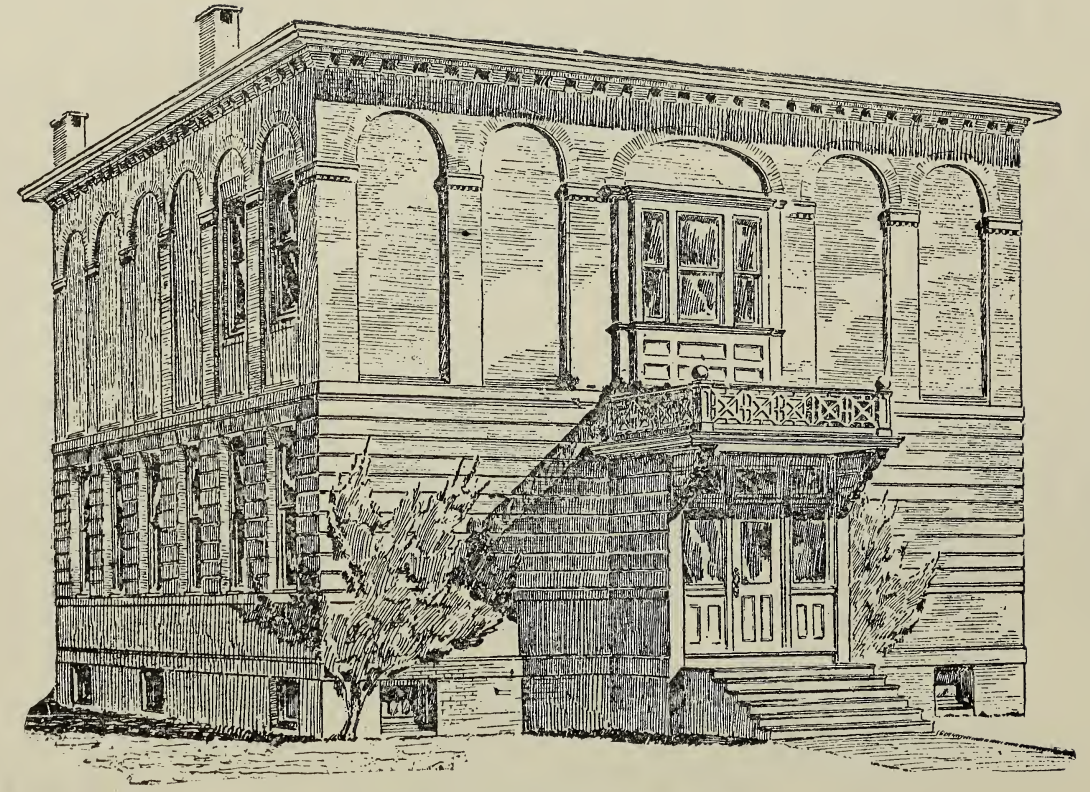
First Year: Anatomy, Histology, Physiology, Chemistry and Personal Hygiene.

Second Year: Anatomy, Physiology, Chemistry, Pathology, Bacteriology.

Third Year: Internal Medicine, Surgery, Materia Medica and Therapeutics, Diseases of Women, Obstetrics.

Fourth Year: Internal Medicine, Surgery, Materia Medica and Therapeutics, Medical Jurisprudence, Public Hygiene, Diseases of Women, Diseases of Children, Diseases of the Mind, Neurology, Diseases of the Skin, Diseases of the Genito-Urinary System, Diseases of the Eye, Diseases of the Ear, Diseases of the Joints, Diseases of the Nose and Throat.

The students of the first and second years are instructed at Brunswick, where the school has been situated since its foundation in 1820, and where the facilities are excellent for imparting a knowledge of the primary branches. The third and fourth year classes are taught in Portland on account of the superior clinical advantages afforded in that city. The building designed for the use of the school and now occupied by it furnishes ample accommodations for the advanced classes. The location of the building is on Chadwick Street, near the Maine General Hospital, in which institution nearly



SCHOOL BUILDING, PORTLAND

all the teachers in the school are medical or surgical officers and the Directors of which are in full sympathy with the purposes of the Faculty.*

While the Maine General Hospital (a view of which is given on the last page of the book) is the chief source of supply of clinical material for the school, Portland has a number of other institutions which will contribute to the bedside instruction of the students; and the various teachers, as opportunity permits, will show individual pupils interesting cases in their private practice.

The eighty-sixth annual course will begin on Thursday, the 19th of October, 1905, and will continue eight months.

Examination for *admission to the school* will be held at nine o'clock on the morning of the first day, Thursday the 19th of October, in Brunswick, and will be conducted by the Academic Committees on entrance examination to the College.

Final examinations for each class will be held in the period from the 7th to the 21st of June.

Re-examinations, deferred examinations and examinations for advanced standing for those who desire to enter the second year will be held in Brunswick, on Friday, the 20th of October. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for advanced standing for those wishing to enter the third year will be held in Portland on Saturday, October 21st., examinations in anatomy at nine o'clock A. M., in physiology at 2 o'clock P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in

*The electric cars (Spring Street line—blue) run on Vaughn Street, which is but one block from the School; and free transfers may be had from the Congress Street line (green) and the Middle Street line (red), so that one can easily reach the School from either end of the city, and from the Union, Grand Trunk and Rochester railway stations.

Portland on Friday and Saturday, October 20th and 21st, at hours to be hereafter appointed.

At the end of the first, second and third years, students who have passed successful examinations will receive certificates from the Dean.

A student who fails to pass any branch at the required examination in June, may present himself for re-examination at the beginning of the next course; if he then fails to pass or fails to present himself, he may be examined at the end of three weeks at the examination provided for those who enter late. If he fails at this examination he shall not again be examined in that branch until the expiration of the year, unless admitted to conditions by vote of the faculty on recommendation of the head of the department in which he has failed.

On recommendation of the head of a department, any student who has failed on examinations as above provided in the study of that department, may by vote of the faculty be allowed to enter upon the work of the next year, but he shall not be admitted to any examination of that year until he shall have passed a satisfactory examination in the study or studies which he has previously failed to pass.

No student will be admitted to the privilege of conditions if he has failed in more than two departments.

Every student who fails to maintain a satisfactory standard of work, will be warned of his deficiency from time to time, before the end of the term.

An examination which is not completed receives no consideration.

The systematic courses of instruction will begin on Monday morning, the twenty-third of October.

On arriving in Brunswick students should apply at the office of the Dean in the medical building, enter their names, receive directions concerning their examinations, if any are needed, pay their fees and be advised as to boarding places.

In Portland they should apply at the office in the medical building for the same purposes. Dr. Charles O. Hunt will act as deputy dean.

EXPENSES.

For Instruction:

In each of the required four years $100. After attendance upon four full courses payment of the Matriculation fee only will be required.

For Examinations:

Payable at the end of the first year,

In Anatomy,	$5.00
In Physiology,	5.00
In Chemistry,	5.00

Payable at the close of the term of instruction in Obstetrics, for examination in this branch, 5.00

These four fees are credited on the diploma or graduation fee.

For every re-examination in any of the above studies, $3.00

This fee is not credited on the diploma fee.

For examination or re-examination in any branch at a time not regularly appointed, the student shall pay a fee of $5.00 in addition to the prescribed fee for that examination.

Miscellaneous:

The Matriculation fee of $5.00 is required of every student each year.

For materials used in the chemical laboratory courses, $4 for first course, $3 for second course, payable in advance.

Material used in the physiological laboratory furnished at cost.

For materials used in the bacteriological laboratory about $2.00.

For anatomical material, its cost, payable in advance.

For graduation fee (not returnable), including the parchment diploma, $25. This will have been nearly paid in the examination fees of the previous years.

Graduates of other schools, who have been engaged three years in the regular practice of medicine, may receive a general ticket upon presentation of their diplomas and payment of the matriculation fee. Graduates of other schools are not eligible for a degree from this school without attendance upon a full course of instruction immediately preceding the examination for such a degree.

All fees must be *paid in cash* and *strictly in advance.*

Unfurnished rooms heated by steam can be secured in the College dormitories at a rental of from $72 to $108 for each course. Furnished rooms outside the College can be obtained at a rental of from $1.50 to $2.50 per week according to the conveniences. A sharing of the above expenses by two students evidently brings the cost within reasonable limits.

The price of board is from $3.00 to $3.50 a week.

The cost of living in Portland has been found to be not in excess of that at Brunswick.

$15 to $25 a year covers the cost of books.

REQUIREMENTS FOR ADMISSION.

Applicants for admission will be required to give evidence that they possess a good English education, and unless they present diplomas or entrance-tickets as provided below they must pass examinations in the following studies:

English:—Spelling, writing, construction of sentences and English grammar in general.

Arithmetic:—As represented in the larger common-school text books on the subject.

Algebra:—Including addition, subtraction, multiplication, division, factoring and simple equations, as, for example, the first eleven chapters in Wentworth's New School Algebra.

Geometry:—Including at least three books of some standard plane geometry, as Wells' or Wentworth's.

History of the United States:—To the extent afforded in the ordinary school history, such as Montgomery's.

Physics:—Elementary principles, as taken up in any standard school text book. Such topics as the following should be specially studied: Energy, mass, specific gravity, flow of liquids and gases, action of heat and pressure, wave motions, construction and use of thermometers, reflection and refraction of light, movement of sound, development of electricity and magnetism and their general laws.

Chemistry:—The principles of inorganic chemistry, as taken up in any standard school text book. The study should have been pursued by the laboratory method, or at least with illustrative experiments by the teacher.

Latin:—Including sight-reading of easy Latin, a knowledge of the construction of Latin sentences, and the reading of some standard Latin author, as Cæsar or Virgil. At least two years should have been spent in the study of Latin in some good school.

Those who are graduates of Colleges, Normal Schools, High Schools, or Academies, or have passed the entrance examination to any recognized College, on presentation of their diplomas or matriculation ticket, will be exempt from examination, provided that their previous studies have included Latin, Chemistry and Physics, to an extent not less than herein prescribed; but if their previous studies have not included Latin, Chemistry and Physics to the required extent, they must be examined upon these branches and their diplomas or matriculation tickets will exempt them from examination in the other branches. All without exception who have not such diplomas or tickets will be required to pass the entire entrance examination.

Business colleges are not recognized.

Students from other schools who apply for advanced standing must comply with the requirements for admission to the first year, must give satisfactory evidence that they have completed a course or courses of instruction, equivalent in kind and amount to that or those in this school preceding that to which admission is sought, and must pass examinations in all of the branches previously pursued by the class which they wish to enter. Certificates of the passage of examinations in other schools are not accepted in lieu of examinations.

It is desired that a literal interpretation shall be placed upon the stated requirements of the candidates for matriculation, as hitherto there have been not infrequent examples of those who inquire if other conditions than those named will not serve in lieu of the examination. The same consideration is asked for the explicit condition named as regulating the pre-payment of fees in cash.

REQUIREMENTS FOR ADMISSION IN 1907.

In the autumn of 1907 and thereafter an applicant for admission, who gives satisfactory evidence that he has passed the entrance examination to any reputable college of arts, science, or philosophy will be admitted without examination, provided that his preparation satisfies the requirements enumerated below. If his preparation is lacking in one or more of these respects, the deficiency must be made up by examination.

An applicant must offer subjects amounting in all to twenty-six points.

The following subjects, aggregating nineteen points, are required:

English,	4
Latin,	4
Algebra,	4
Plane Geometry,	2

American History,	1
Chemistry,	2
Physics,	2

Subjects amounting to seven points must be elected from the following list:

Elementary German,	4
Elementary French,	2
Elementary Greek,	4
Advanced Latin,	4
English History,	1
Greek History,	1
Roman History,	1
Zoology,	1

In the autumn of 1909 and thereafter Zoology will be placed in the list of required subjects.

The amount of attainment required in each of the subjects specified is stated below.

English:—The candidate will be required to present evidence of a general knowledge of the subject-matter of the books mentioned, and to answer simple questions on the lives of their authors. The examination will usually be the writing of a paragraph or two on each of several topics set in the paper given the candidate. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part of the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

Latin:—The examination will be adapted to the proficiency of those who have studied Latin in a systematic course of five exercises a week extending through at least three school years. It will consist of two parts:

(a) The translation at sight of simple Latin prose and verse.

(b) A thorough examination on Cicero's second, third and fourth speeches against Catiline, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Latin prose, involving the use of such words, constructions, and idioms only, as occur in the speeches prescribed.

Algebra:—The requirement in Algebra embraces the following topics: All elementary processes necessary for the solution of simultaneous equations of the first degree; the statement and solution of problems leading to these equations; treatment of inequalities; doctrine of square and cube root; theory of exponents; radicals and imaginaries; solutions of quadratics and equations in quadratic form by the method of completing the square, by factoring, and by a formula; discussion of the properties of quadratics; quadratics containing two unknown quantities, and the solution of problems leading thereto; ratio and proportion; arithmetical and geometric progressions; binomial theorem for positive integral exponents.

Plane Geometry:—The requirement in Plane Geometry includes the theorems and exercises of the ordinary school text-book; mensuration of plane figures; and numerical problems based on the text. The candidate should be able to write formal demonstrations of simple original theorems.

History:—1. Greek History. To the death of Alexander with due reference to Greek life, literature, and art.

2. Roman History. To 800 A. D. with due reference to government and institutions.

3. English History. With special reference to social and political development.

4. American History. With special attention to the development of institutions and principles of civil government.

The examinations in these subjects will call for comparison of historical characters and periods, for summaries of institutional development, and in general for exercise of judgment as well as memory. A knowledge of historical geography, which will be tested by an outline map is essential. The amount of collateral reading which has been done by the student will be taken into consideration. In general, all schools are urged to take steps to make their courses conform as far as possible to the recommendations of the Committee of Seven.

Chemistry:—General Chemistry as represented by Remsen's "Introduction to Chemistry" or some other text-book of similar scope. Candidates must present note-books, certified by their instructors, in which are the results of their own experiments and full notes of processes; and not less than one-half of the time spent upon chemistry must have been given to laboratory work.

Physics:—Physics as represented by Gage's "Elements of Physics" or other text-book of equal grade. Candidates must be able to solve numerical examples under the various sections; must have performed forty experiments from Hall and Bergen's Text-book, and have kept a note-book containing a written description in their own language of their experiments, with all their calculations. These note-books must be certified by their instructors and presented at the examination.

Elementary German:—*(a)* The translation at sight of simple German prose. *(b)* Questions intended to test the candidate's knowledge of elementary grammar. *(c)* The translation into German of simple English sentences, or of easy connected prose.

The examination in Elementary German presupposes a knowledge of the elements of German grammar as repre-

sented, for example, by Harris' "German Lessons," or Part I of Joynes-Meissner or Thomas' "German Grammar;" German Prose Composition as represented, for example, by Harris' "German Prose Composition" pages 10 to 50; and ability to read at sight ordinary German prose or simple poetry. Those desiring guidance in the selection of suitable texts will find helpful the list given in Section VIII, Report of the Committee of Twelve of the Modern Language Association, United States Bureau of Education.

Elementary French:—Elements of French Grammar, as represented in amount by Fraser and Squair's "French Grammar and Reader," to page 161, and 150 pages of modern French Prose.

Elementary Greek:—The examination will be adapted to the proficiency of those who, in addition to the course defined as suitable preparation for the examination in Elementary Latin, have studied Greek in a systematic course of five exercises a week, extending through at least two school years. It will consist of two parts:

(*a*) The translation at sight of passages of simple Attic prose.

(*b*) A thorough examination on Xenophon's "Anabasis", Book II, directed to testing the candidate's mastery of the ordinary forms, constructions and idioms of the language; the test to consist, in part, of writing simple Attic prose, involving the use of such words, constructions, and idioms only, as occur in the portion of Xenophon prescribed.

Advanced Latin:—The examination will be adapted to the proficiency of those who have studied Latin in a systematic course of five exercises a week, extending through at least four school years. It will consist of two parts:

(*a*) The translation at sight of passages of Latin prose and verse, with questions on ordinary forms, constructions, and idioms, and on prosody.

(*b*) The translation into Latin prose of a passage of connected English narrative. The passage set for translation will be based on some portion of the Latin prose works usually read in preparation for college, and will be limited to the subject-matter of those works.

Zoology:—This subject will be required to an extent represented by Packard's "First Lessons in Zoology".

In place of examinations, certificates will be received from preparatory schools in New England which have been approved by the New England College Entrance Certificate Board.

GRADUATION.

A candidate must be twenty-one years of age, and must have devoted to his professional studies four years, including a course of instruction in each of these years in some reputable, regular, incorporated medical institution, and the last course previous to examination must have been in this school. He must present a satisfactory certificate of good moral character from a citizen of the town in which he resides. He must also pass a satisfactory examination in the required studies previously specified and present a thesis on some medical subject, a fair copy of which must be handed to the Dean, at least ten days before the beginning of the final examinations.

Time spent in pharmacy, dental and veterinary institutions, and in preparatory schools does not entitle a student to examination for advanced standing.

A student who has received the degree of A. B., B. S., or any similar degree after four years of study in a recognized college or technical school if his studies have included a satisfactory amount of chemistry, physics and biology, may be admitted as a second year student, but when so admitted he shall not gain third year standing until he has passed satisfactory examinations in the studies of the first and second years.

METHODS OF INSTRUCTION.

In order to afford to students who contemplate entering the school an idea of the facilities presented by this institution for acquiring a knowledge of the science and art of medicine, a brief statement is here made of the scope of the work in each department and the methods adopted for imparting instruction.

ANATOMY.

The course in this branch covers two years. In the early part of the first year the elementary tissues are studied, both in the lecture-room and the histological laboratory. Then the viscera (including the cerebro-spinal axis and the organs of the special senses) are taken up in such order as will enable the student to become acquainted with the structure of each organ before its function is treated of by the professor of physiology. At the same time with this work the subjects of osteology and arthrology are pursued. All of these exercises are illustrated by casts, models, fresh and preserved specimens. Some subjects are treated by lectures; but the recitation method has the more prominent place.

A large number of disarticulated skeletons are provided, and may be borrowed by the class, so that each student may study his osteology in the most practical way. The course in minute anatomy extends throughout the year, each student being provided with a microscope, and having a careful drill in staining and mounting specimens, as well as in the recognition of the structure of the various organs. The dissection of some higher vertebrates is practiced in the latter part of the year, with a view to the observation of the homologies, and also the attainment of manual dexterity with anatomical implements.

The second year in anatomy is devoted to the remainder of systematic anatomy and to relational anatomy. Myology is taken first, and the students must be able to recognize the

muscles in the part which he is to dissect before he is allowed to work on the cadaver. Two dissections on different parts are required and students are encouraged to dissect as much more as is possible. Surface anatomy is illustrated upon the living model, upon which, also, the students are required to make demonstrations. In the examinations at the close of the year demonstrations upon the dissected subjects are a prominent feature.

Before coming to the school students can do much to equip themselves for appreciation of human anatomy by making systematic dissections of some lower animals; and to this end they are earnestly advised to follow faithfully the directions prescribed in "Physiology Practicums," which will be sent post-paid for one dollar by the author, Prof. B. G. Wilder, Ithaca, N. Y. Admirable books in the same line are Wilder and Gage's Anatomical Technology, Foster and Langley's Practical Physiology, and Huxley and Martin's Biology.

The Anatomical Museum, previously well supplied with wet and dry specimens, casts and models in plaster, wax, and papier mache, has recently been enriched by a large importation from Germany, also by the splendid and most generous gift of Auzoux's complete model of a man from Hon. John Fremont Hill, Ex-Governor of our State and an alumnus of 1877.

PHYSIOLOGY.

Instruction in this department is conducted with reference to the practical application of the facts of human physiology to the needs of the student, in his study of the diagnosis and treatment of disease. Class room demonstrations and experimental laboratory teaching are employed, so far as they can be made to serve this purpose.

The instruction will be given by practical laboratory work, text book recitations and supplementary lectures.

A new laboratory fully equipped with the Harvard apparatus is now available.

The work of the first year will be devoted to study by practical laboratory exercises, extending over half the term, of the functions of Nutrition. Special attention will be given to the physiology of nerve and muscle, of the Blood, including its microscopical study; Digestion and the phenomena and physics of the Circulation and Respiration. Students will be taught to demonstrate for themselves the essential facts connected with these functions.

Written reviews will be held from time to time besides regular quizes upon both the didactic and laboratory work.

The work of the second year will be devoted to the study of Reproduction, the Nervous System, the Special Senses and the physiology of Voice and Speech.

The department is well equipped with charts, models and apparatus for demonstration and experimental work, admirably adapted to aid in giving students a thoroughly practical course in Physiology.

Laboratory material will be supplied at cost. Students will furnish their own instruments for nerve-muscle dissection, and will be charged with the cost of any breakage of apparatus.

In connection with this course several hours will be devoted to the subject of Personal Hygiene.

CHEMISTRY.

The chemical courses extend over the first two years. They consist of lectures, conferences and laboratory work, occupying from three to six hours per week for each class. As a knowledge of general inorganic chemistry is required for admission, first year men begin with the application of general chemistry to the qualitative analysis of simple substances. This is followed by the principles and practice of quantitative analysis, especially volumetric.

The examples used in analysis are selected with special reference to the work of a physician, and include water, air,

and the inorganic poisons. The analytical courses take the first half year.

The second half year with first year men is given to general organic chemistry, in which the structure, preparation and relation of structure to properties are illustrated in cases of the simpler compounds.

Second year students begin with a study of the more complex organic compounds related to medicine, such as the synthetic coal tar compounds, the alkaloids, ptomains and leucomains.

This is followed by physiological chemistry including analysis of urine and other secretions.

The aim is to make the chemical courses as practical as possible. To this end the student is taught to prepare many of the solutions and test substances, as well as to use them. He is taught also how to construct apparatus, manipulate glass tubing, etc. The facilities afforded by the Searles Science Building make it possible to do this to an unusual degree.

Students who have completed in other schools, courses of study equivalent to the above, may, upon examination, be excused from any of them.

Each student is required to pay in advance a laboratory fee, covering the average cost of chemicals, gas and water. This is $4 for first year men and $3 for second. In addition each will pay for apparatus broken or not returned at the end of the term.

OBSTETRICS.

Instruction in this department will be given by lectures and recitations. The instructor in Obstetrics will demonstrate for the class, in sections, work on the manikin: the diagnosis of position and presentation, the mechanism of normal labor; the manoeuvers necessary in the delivery of abnormal cases, version and application of forceps. Each

member of the class will have a chance to perform these various manipulations.

It is hoped that an arrangement will be made whereby the city maternity cases will be at the disposal of the teachers, so clinical instruction may be given to the class in sections, and individual cases furnished for each member.

INTERNAL MEDICINE.

Instruction during the third year will include careful and extended study of diagnostic methods and special diseases.

The fourth year will be devoted to such special diseases as have not been considered during the previous year. Regular recitations will be conducted throughout both years.

A medical clinic will be held by the professor at the Hospital every Thursday from 9 until 11 A. M., the material being furnished by the visiting physicians from the resources of their wards, and by all members of the faculty as they have cases of interest which can be utilized for the illustration of subjects under treatment in the didactic course. The visiting physicians will hold additional clinics as the opportunity occurs. Definite announcements of these exercises will be seasonably made.

PATHOLOGY AND BACTERIOLOGY.

The new, commodious, and amply equipped laboratory in Seth Adams Hall gives excellent facilities for instruction in bacteriology and pathological histology. The course in surgical pathological histology is given in the laboratory at the school building in Portland.

1. Bacteriology. Instruction is given by lectures and laboratory work. In the laboratory course, each student is required to cultivate upon six media twelve varieties of pathogenic bacteria, to make stained microscopical preparations of each variety, and to study the living organisms in hanging drop preparations. Principles of disinfection are

verified by experiment. The media and staining fluids are prepared by students. A limited number of inoculation experiments are performed. Students make bacteriological examination of water and milk. Special attention is given to the examination of sputum for tubercle bacilli, to the diagnosis of diphtheria by means of making smears from suspected throats on Loffler's blood-serum mixture, to the technic of the serum diagnosis of typhoid fever, and to methods of staining gonorrheal pus.

2. General Pathology and Pathological Histology. Instruction is given by recitations, lectures and laboratory work. In the laboratory course much use is made of a large collection of microscopical preparations. The work begins with the study of inflammations excited by chemical and bacterial causes, including the pathological histology of pneumonia, diphtheria, tuberculosis, etc. Later follows the study of degenerations and tumors. As far as possible, the consideration of a subject in the class-room is followed immediately by a study of the same subject in the laboratory. During the latter part of the course much time is given to diagnosis work upon microscopical preparations.

3. Blood Examination. A short course in which students are trained in counting the red and white corpuscles, in estimating the amount of hemoglobin, in preparing and examining fresh and stained specimens.

4. Surgical Pathological Histology. This is a laboratory course in which each third-year student examines microscopically the tissues obtained at the surgical clinics at the Maine General Hospital. Students have opportunity for making their own microscopic preparations which may be preserved for reference in connection with clinic records.

SURGERY.

The instruction in surgery is given by lectures, recitations, demonstrations, clinics, diagnosis exercises on the patient, and operations on the cadaver. It extends through-

out the third and fourth years of the course. The didactic work is done by the professor and the instructor, the clinical by the surgeons of the Maine General Hospital, all of whom are officers in the School.

In the didactic course the recitation will occupy the principal place; but the lecture method will be employed whenever desirable, as in the introduction of new topics, the blocking-out of advance work, and the explanation of matters not adequately treated in the text-book. In operative surgery the students perform the various operations upon the cadaver, under the immediate supervision of the teacher. The application of bandages and other dressings is taught in the most practical manner.

The clinical teachers not only perform operations in the presence of the class, but explain the various steps of their procedures. At least twice in each week they take sections of the class through the wards, affording opportunities for the observation of the after-treatment of the patients, upon whom operations have been performed. They give instruction, also, in diagnosis, requiring students to examine patients, and present their findings to the class; and these reports are discussed by fellow students designated for the purpose, the teacher correcting errors of method, and finally demonstrating the facts of the case, and explaining their significance. A plan of notification by telephone enables students to obtain prompt information of accident cases of interest, which are brought into the Hospital.

The most practical character will be given to all of the instruction in this department.

MATERIA MEDICA AND THERAPEUTICS.

Instruction in this department will be given during the third and fourth years.

In the third year the teaching will be given by lectures and quizes, with special attention given to prescription writing.

In the fourth year, the lectures and quizes will be continued, and there will also be a recitation course in practical therapeutics.

MEDICAL JURISPRUDENCE.

The instruction in Medical Jurisprudence will be directed mainly to an exposition of the legal duties and responsibilities of physicians and surgeons to their patients and also to their character and position as medical expert witnesses in Courts of Justice. Practical suggestions will be given for guidance in both respects.

GYNÆCOLOGY.

The course in Diseases of Women will continue through the third and fourth years. By a new arrangement, third year students will have work mainly didactic in character.

Fourth year students will be given a course in the pathology (gross and microscopic) of the Diseases of Women.

There will also be weekly clinics for fourth year men, at which the examination of female patients will be an important feature.

DISEASES OF CHILDREN.

Instruction will be given by recitations, lectures, clinical demonstrations, and study of cases by individual students with reports and discussions by members of the class.

MENTAL DISEASES.

The professor of this department is chief medical officer of the Pennsylvania Hospital for the Insane. Especial efforts are made to instruct the students in the early recognition of insanity, with a view to the institution of treatment at the time when it is most productive of good results.

OPHTHALMOLOGY AND OTOLOGY.

The instruction in these departments will be given by lectures and clinics. A weekly clinic will be held at the Hospital on Saturday, at 9 A. M. The various diseases will be described as cases illustrating them are available for demonstration; operations will be performed when required; and other treatment applied as may be necessary.

PUBLIC HYGIENE.

Instruction is given by the Professor of Physiology who is a member of the State Board of Health, by lectures upon the principles of Public Sanitation, considering the source and character of public water supplies and the collection and disposal of waste, with special reference to preventable diseases.

Several hours are devoted to sanitary legislation and the relations and obligations of the practicing physician to public and health-boards, in the management of infectious diseases.

NEUROLOGY.

Instruction in Neurology will be given to the fourth class each week throughout the course by lectures, clinics and quizes, two hours of each week being devoted to such instruction.

GENITO-URINARY SURGERY.

Instruction in Genito-Urinary Surgery will be given to the fourth class each week during the first half of the course —during the last half the same time will be devoted to instruction in Dermatology.

ORTHOPEDIC SURGERY.

A clinic in Orthopedic Surgery will be held at the Hospital on each Friday morning at 9 A. M.

DISEASES OF THE NOSE AND THROAT.

The fourth class will in the coming year receive special instruction, both didactic and clinical in Diseases of the Nose and Throat.

THE LIBRARY.

The Library of the Medical School, containing 3,700 volumes, has been combined with that of the College, which numbers over 80,000 volumes. Both collections are under the same administration and are at the service of the medical students. The more recently published medical works and current numbers of professional journals are kept in a separate room in the main library building for their especial use. It is not the policy of the school to furnish text books through its library, or to buy largely in medical literature; yet, by means of the catalogue of the Library of the Surgeon General's Office and the system of inter-library loans, the librarian is able to procure for use in serious investigation almost any book that may be desired.

TEXT BOOKS.

ANATOMY—Gerrish. For reference, Quain. For use in Histological Laboratory, Dunham.

PHYSIOLOGY—For recitation work, Blakiston's edition of Kirke's. For reference, Landois, Howell's "American Text Book of Physiology." For Laboratory, Haus' "Experimental Physiology" For reference, Porter's "Introduction to Physiology" and Sterling's "Practical Physiology."

CHEMISTRY—For general reference, Simon, Bartley, Pellew. For reference in urinary analysis, Purdy, Black, Tyson. For use in laboratory, Robinson's Qualitative Chemical Analysis.

PUBLIC HYGIENE—For reference, Harrington, Coplin and Bevan, Parke's "Practical Hygiene," Abbott's "Hygiene of the Transmissible Diseases."

MATERIA MEDICA AND THERAPEUTICS—For recitation work, Hare. For reference, White & Wilcox, H. C. Wood, Cushney, Stevens. Diagnosis, Butler.

PRACTICE OF MEDICINE—Hare, Osler, Tyson. For reference, Strumpell, Loomis and Thompson's System of Practical Medicine.

PHYSICAL DIAGNOSIS—Cabot, Lefevre.

MEDICAL DIAGNOSIS—Butler.

BACTERIOLOGY—For reference, Abbott, McFarland.

PATHOLOGY—For recitation work, McFarland. For reference, Ziegler, Mallory and Wright.

SURGERY—For recitation, Brewer. For reference, Park. Minor surgery, Wharton. Surgical pathology, Warren.

OBSTETRICS—Williams, Webster, Edgar, Hirst, Reynolds and Newell.

DISEASES OF WOMEN—Dudley, Penrose, Reed, Kelly 2 vols.

DISEASES OF CHILDREN—Holt, Rotch, Williams.

MEDICAL JURISPRUDENCE—Taylor with Bell's Notes, Ewell.

DISEASES OF THE EYE—Nettleship, Swanzay, DeSchweinitz.

DISEASES OF THE EAR—Bacon, Field.

NEUROLOGY—Dana's Text Book of Nervous Diseases, or Oppenheim's "Diseases of the Nervous System."

DERMATOLOGY—Walker's Introduction.

ORTHOPEDIC SURGERY—Bradford and Lovett.

NOSE AND THROAT—Bishop, Knight, Kyle. For reference, L. Brown.

DICTIONARIES—Dorland Illustrated, Dunglison, Gould.

CALENDAR.

1905.

19 October—Thursday. Entrance Examination: for first year students, at nine o'clock, A. M., in Brunswick.

20 October—Friday. Re-examinations, deferred examinations and examinations for advanced standing for second year in Brunswick, in Anatomy, at nine o'clock, A. M.; in Physiology at two o'clock, P. M.

21 October—Saturday. Re-examinations, deferred examinations and examinations for advanced standing, for third year, in Anatomy, at nine o'clock, A. M.; in Physiology at two o'clock, P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 20th and 21st, at hours to be hereafter appointed.

30 November—Thursday, Thanksgiving. Holiday.

Recess from noon of Friday, December 22d, to morning of Tuesday, January 2d.

1906.

22 February—Thursday, Washington's Birthday. Holiday. No exercises.

April —Recess from noon of Saturday, April 1st, to morning of Tuesday, April 10th.

30 May—Wednesday, Memorial Day. Holiday. No exercises.

6 to 20 June—Wednesday to Wednesday of second week. Examinations.

20 June—Wednesday. Commencement.

Summer vacation, seventeen weeks.

THE MAINE GENERAL HOSPITAL, PORTLAND